

233600S03 Terminal Device Coil Assembly

A. HOSE KITS

- a. Provide a factory-assembled, one-piece hose kit/piping package for supply and return connections for each piece of terminal equipment (Reheat Coil, Fan Coil, Etc.)
- b. Contractor shall provide and install piping packages with integral automatic balance valve. Each kit shall be sized for 2.0 to 7.0 feet per second. Valves may be mounted in any altitude and do not require straight sections of pipe either upstream or downstream for proper operation. Griswold is not an acceptable manufacturer.
- c. Supply and return valves shall be independent of any other device such as pressure/temperature ports, control valves, or strainers to allow for isolation and replacement of any component other than the valve itself without further shutdown of the system.
- d. Each return side hose kit/piping package shall include the following:
 - 1) Single piece Y - valve body for sizes ½" – 1-1/2", shall be constructed of hot forged brass with threaded inlets and outlets. 2" – 3" shall be constructed of bronze. 4" and larger shall be constructed of carbon steel with flanged inlets and outlets. All valve bodies are suitable for a minimum of 400 PSIG working pressure.
 - 2) Automatic flow control valves shall be factory set to rated flow and shall automatically control the flow to within 10% of the rated value subject to the operating parameters of; 2 to 80 PSID, fluid freezing to 225° F, 2.0 to 7.0 FPS.
 - 3) Valve internal control mechanism shall be of a quiet, clog resistant design with reverse flow capabilities and consist of precision orifice that is field changeable within the listed flow rate.
 - 4) Single pressure/temperature test ports for verifying the pressure differential and system temperature, full flow design ball valve with blow out proof stems for shut off.
 - 5) Manufacturer shall provide certified independent laboratory tests verifying accuracy of performance.
 - 6) All valves shall be labeled with controlled flow direction, flow rate, PSID control range, manufacturer and model number, unit tagging.
- e. Each supply side hose kit/piping package shall include the following:

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- 1) Single piece Y - valve body for sizes ½" – 1-1/2", shall be constructed of hot forged brass with threaded inlets and outlets. 2-3" shall be constructed of bronze. 4" and larger shall be constructed of carbon steel with flanged inlets and outlets. All valve bodies are suitable for a minimum of 400 PSIG working pressure.
 - 2) Single pressure/temperature test ports for verifying the pressure differential and system temperature, full flow design ball valve with blow out stems for shut off.
 - 3) Strainer shall be Y-type configuration furnished with hose connector blow down valve. Strainer screen shall be stainless steel mesh and easily accessible for cleaning without disconnecting hoses.
 - 4) All valves shall be labeled with flow direction, manufacturer and model number, unit tagging.
- f. Stainless Steel Braided Supply and Return Hoses are not acceptable. Piping shall be meet the University Standards for hydronic piping.
- g. Warrantee: Automatic Flow Control Valves containing orifice and diaphragm shall be warranted for the life of the HVAC system in which it was originally installed. Manufacturer shall warrant all other components, for no less than five (5) years from date of purchase. Manufacturer shall warrant steel braided hose for no less than three (3) years from date of substantial completion.

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